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Application No. 09/729,118

RD-27953

IN THE CLAIMS:

Please rewrite claim 1 as follows and add new claims 37 to 40 as follows:

A plate for combinatorial investigation of the 1. (currently amended) catalytic production of aromatic carbonates, comprising:

a substrate comprising an array of reaction cells; and

a permeable polycarbonate film covering sealed to cover at least one cell to CENTRAL selectively permit transport of a reactant gas comprising oxygen and carbon monoxide into the at least one cell while preventing transport of a diaryl carbonate reaction product out of the at least one cell[;

wherein the permeable polycarbonate film selectively admits transport of oxygen and carbon monoxide and prohibits transport of a diaryl carbonate; and

wherein the at least one cell is formed from a polycarbonate substrate with two opposing walls comprising permeable polycarbonate film].

- 2. (previously presented) The plate of claim 1, wherein the permeable polycarbonate film is characterized by a diffusion coefficient of 5 X 10⁻¹⁰ to 5 X 10⁻⁷ cc (STP)-mm/cm²-sec-cmHg.
- 3. (previously presented) The plate of claim 1, wherein the permeable polycarbonate film is characterized by a diffusion coefficient of 1 X 10⁻⁹ to 1 X 10⁻⁷ cc (STP)-mm/cm²-sec-cmHg.
- The plate of claim 1, wherein the permeable 4. (previously presented) polycarbonate film is characterized by a diffusion coefficient of 2 X 10-8 to 2 X 10-6 cc (STP)-mm/cm²-sec-cmHg.
- 5. (previously presented) The plate of claim 1, wherein the permeable polycarbonate film is .0002 to .05 mm thick.



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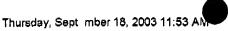
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- 6. (previously presented) The plate of claim 1, wherein the permeable polycarbonate film is .005 to .04 mm thick.
- 7. (previously presented) The plate of claim 1, wherein the permeable polycarbonate film is.01 to .025 mm thick.
 - 8. (canceled)
 - 9. (canceled)
- 10. (previously presented) The plate of claim 1, wherein the permeable polycarbonate film is a monofilm, coextrusion, composite or laminate.
 - 11. (canceled)
 - 12. (canceled)
 - 13. (canceled)
 - 14. (canceled)
 - 15. (canceled)

The plate of claim 1, wherein the at least one cell is 16 (previously presented). a concave bottomed cell with permeable film cover.

- 17. (canceled)
- 18. (canceled)
- 19. (canceled)
- 20. (canceled)
- 21. (canceled)
- 22. (canceled)
- 23. (canceled)





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- 24. (canceled)
- 25. (canceled)
- 26. (canceled)
- 27. (canceled)
- 28. (canceled)
- 29. (canceled)
- 30. (canceled)
- 31. (canceled)
- 32. (canceled)
- 33. (canceled)
- 34. (canceled)
- 35. (canceled)
- 36. (canceled)
- 37. (new) The plate of claim 1, wherein the at least one cell is formed from a polycarbonate substrate with two opposing walls comprising sealed permeable polycarbonate film.
- 38. (new) The plate of claim 1, wherein the permeable polycarbonate film is heat sealed to cover the at least one cell.
- 39 (new) The plate of claim 1, wherein the plate comprises a substrate comprising an array of reaction cells and a selected number of cells but not all are covered by the permeable polycarbonate film.



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The plate of claim 1, wherein the plate comprises a substrate 40. (new) comprising an array of reaction cells and at least one cell is covered by the permeable polycarbonate film and at least one other cell is covered with a different film.